

# Package ‘RCzechia’

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**Type** Package

**Title** Spatial Objects of the Czech Republic

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**Description** Administrative regions and other spatial objects of the Czech Republic.

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**BugReports** <https://github.com/jlacko/RCzechia/issues>

**License** MIT + file LICENSE

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 RCzechia-package

*RCzechia: Spatial Objects of the Czech Republic*


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## Description

A selection of spatial objects relevant to the Czech Republic. Due to CRAN package size requirements (5 MB) the objects are stored externally (on Amazon S3) - and therefore could not be implemented as datasets. They are functions returning data frames instead.

## Details

To save time (and bandwidth) the downloaded objects are saved locally in ‘tempdir’ directory when requested, and downloaded at most once *per R session*; out of respect to CRAN Repository Policy a more permanent caching on user’s side is not attempted.

This means that:

- a working internet connection is required to use the full resolution objects
- all objects need to be called with (possibly empty) braces

For the most frequently used objects - **republika**, **kraje** and **okresy** - a low resolution version is also implemented. The low resolution data sets are stored locally (and working internet connection is not necessary to use them).

All objects are implemented as *sf* data frames.

**Administrative regions**

- republika - borders of the Czech Republic
- kraje - regions / NUTS3 units
- okresy - districts / LAU1 units
- orp\_polygony - municipalities with extended powers (obce s rozšířenou působností)
- obce\_polygony - municipalities as polygons
- obce\_body - municipalities as centroids (points)
- casti - city districts (for cities that implement them)

**Natural objects**

- reky - rivers
- plochy - water bodies
- lesy - woodland areas (more than 30 ha in area)

**Other objects**

- silnice - roads
- zeleznice - railroads
- KFME\_grid - grid cells (faunistické čtverce) according to Kartierung der Flora Mitteleuropas methodology
- chr\_uzemi - protected natural areas (chráněná území)

**Utility functions**

In addition three utility functions are implemented to support spatial workflow:

- geocode - geocoding (from address to coordinates)
- revgeo - reverse geocoding (from coordinates to address)

---

casti

*City Parts*

---

**Description**

Function taking no parameters and returning data frame of districts of Prague and other major cities as sf polygons.

**Usage**

```
casti()
```

**Details**

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021. Downloaded size is 1.5 MB.

**Value**

sf data frame with 142 rows of 4 variables + geometry

**KOD** Code of the city part / kod mestske casti

**NAZEV** Name of the city part / nazev mestske casti

**KOD\_OBEC** Code of the city

**NAZ\_OBEC** Name of the city

**Source**

© ČÚZK, 2021 <https://vdp.cuzk.cz/>

---

chr\_uzemi

*Protected Natural Areas*

---

**Description**

Function returning data frame of protected natural areas (Chráněná území) of the Czech Republic as sf polygons. It has no obligatory parameters.

**Usage**

```
chr_uzemi()
```

**Details**

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to September 2020. Downloaded size is 7 MB (so use with caution, and patience).

**Value**

sf data frame with 2677 rows of 3 variables + geometry

**TYP** Type of protected area

**NAZEV** Name, with Czech accents

**PLOCHA** type of protected area: large or small

**Source**

© AOPK ČR, 2020 <https://data.nature.cz/>

---

geocode

*Geocode a Czech Address*

---

## Description

This function connects to Czech State Administration of Land Surveying and Cadastre (<https://www.cuzk.cz/en>) API to geocode an address. As consequence it is implemented only for Czech addresses.

## Usage

```
geocode(address, crs = 4326)
```

## Arguments

address	point to be geocoded, as character (vector)
crs	coordinate reference system of output; default = WGS84

## Details

Input of the function are an address to geocode (or a vector of addresses) and expected Coordinate Reference System of output (default is WGS84 = EPSG:4326, but in some use cases inž. Křovák = EPSG:5514 may be more relevant).

NA's in input are considered an error.

Output is a sf data frame of spatial points.

Depending on the outcome of matching the address to RÚIAN data there is a number of possible outcomes:

- All items were *\*matched exactly\**: the returned sf data frame has the same number of rows as there were elements in vector to be geocoded. The field *target* will have zero duplicates.
- Some items had *\*multiple matches\**: the returned sf data frame has more rows than the there were elements in vector to be geocoded. In the field *target* will be duplicate values. Note that the RÚIAN API limits multiple matches to 10.
- Some (but not all) items had *\*no match\** in RUIAN data: the returned sf data frame will have fewer rows than the vector sent. to be geocoded elements. Some values will be missing from field *target*.
- No items were matched at all: the function returns empty data frame and a message.
- The CUZK API is down or overloaded: the function returns empty data frame and a message.

Note that character encoding is heavily platform dependent, and you may need to convert to UTF-8, e.g. by running `address <- iconv(address, from = "windows-1250", to = "UTF-8")` before calling the function.

Usage of the ČÚZK API is governed by ČÚZK Terms & Conditions - <https://geoportal.cuzk.cz/Dokumenty/Podminky.pdf>.

**Value**

sf data frame with 3 variables + geometry

**address** the address searched (address input)

**type** type of record matched by API

**result** address as returned by API / recorded in RÚIAN

**geometry** hidden column with spatial point data

**Examples**

```
asdf <- geocode("Gogolova 212, Praha 1")
print(asdf)
```

---

KFME\_grid

*KFME grid cells (faunistické čtverce) of the Czech Republic*

---

**Description**

Function returning grid covering the Czech Republic according to the Kartierung der Flora Mitteleuropas methodology.

**Usage**

```
KFME_grid(resolution = "low")
```

**Arguments**

**resolution** Should the function return high or low resolution shapefile? Allowed values are "low" and "high". Default is "low".

**Details**

The function returns a sf data frame of grid cells. Depending on the value of parameter 'resolution' either low resolution (26×42 cells - default) with labels in 4 digit format (e.g. Hrčava = 6479) or high resolution (104×168 cells) with labels in 4 digit + 1 letter format (e.g Hrčava = 6479c).

**Value**

sf data frame with 1092 rows in low resolution and 4368 rows in high resolution

**ctverec** KFME code of the grid cell; depending on value of 'resolution' parameter either 4 digits, or 4 digits + 1 letter

## Examples

```
library(ggplot2)

ggplot() +
  geom_sf(data = republika("low")) +
  geom_sf(data = KFME_grid("low"), fill = NA)
```

---

kraje	<i>Regions (kraje) of the Czech Republic</i>
-------	--

---

## Description

Function returning data frame of NUTS3 administrative units for the Czech Republic as `sf` polygons. It takes a single parameter `resolution` - high res (default) or low res polygons.

## Usage

```
kraje(resolution = "high")
```

## Arguments

<code>resolution</code>	Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.
-------------------------	--

## Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021 (i.e changes introduced by act 51/2020 Sb. are reflected). Downloaded size of high resolution shapefile is <1 MB.

## Value

`sf` data frame with 14 rows of 3 variables + geometry

**KOD\_KRAJ** Code of the region.

**KOD\_CZNUTS3** Code of the region as NUTS3 (kraj).

**NAZ\_CZNUTS3** Name of the region as NUTS3 (kraj).

## Source

© ČÚZK, 2021 <https://vdp.cuzk.cz/>

### Examples

```
library(sf)

hranice <- kraje("low")
plot(hranice, col = "white", max.plot = 1)
```

---

lesy

*Woodland Areas*

---

### Description

Function returning data frame of woodland areas (lesy) of more than 30 hectares in are of the Czech Republic as sf polygons. It has no obligatory parameters.

### Usage

```
lesy()
```

### Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package). The data is current to January 2014. Downloaded size is 2.1 MB.

### Value

sf data frame with 2.366 rows of geometry variable only

### Source

© ArcČR, ARCDATA PRAHA, ZÚ, ČSÚ, 2016 <https://www.arcdata.cz/produkty/geograficka-data/arccr-4>

---

obce\_body

*Municipalities / communes (obce) as centerpoints*

---

### Description

Function returning data frame of LAU2 administrative units for the Czech Republic as sf points. It takes no parameters.

### Usage

```
obce_body()
```



### Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021 (i.e changes introduced by act 51/2020 Sb. are reflected). Downloaded size is <1 MB.

### Value

sf data frame with 6.258 rows of 14 variables + geometry

**KOD\_OBEC** Code of the level I commune (obec).

**NAZ\_OBEC** Name of the level I commune (obec).

**KOD\_POU** Code of the level II commune (obec s poverenym uradem).

**NAZ\_POU** Name of the level II commune (obec s poverenym uradem)).

**KOD\_ORP** Code of the level III commune (obec s rozsirenou pusobnosti).

**NAZ\_ORP** Name of the level III commune (obec s rozsirenou pusobnosti).

**KOD\_OKRES** Code of the district (okres).

**KOD\_LAU1** Code of the LAU1 administrative unit (okres).

**NAZ\_LAU1** Name of the LAU1 administrative unit (okres).

**KOD\_KRAJ** Code of the region (kraj).

**KOD\_CZNUTS3** Code of the NUTS3 unit (kraj)

**NAZ\_CZNUTS3** Name of the NUTS3 unit (kraj)

### Source

© ČÚZK, 2021 <https://vdp.cuzk.cz/>

---

obce\_polygony

*Municipalities / communes (obce) as polygons*

---

### Description

Function returning data frame of LAU2 administrative units for the Czech Republic as sf polygons. It takes no parameters.

### Usage

```
obce_polygony()
```

### Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021 (i.e changes introduced by act 51/2020 Sb. are reflected). Downloaded size is 13.3 MB (so use with caution, and patience).

**Value**

sf data frame with 6.258 rows of 14 variables + geometry

**KOD\_OBEC** Code of the level I commune (obec).

**NAZ\_OBEC** Name of the level I commune (obec).

**KOD\_POU** Code of the level II commune (obec s poverenym uradem).

**NAZ\_POU** Name of the level II commune (obec s poverenym uradem)).

**KOD\_ORP** Code of the level III commune (obec s rozsirenou pusobnosti).

**NAZ\_ORP** Name of the level III commune (obec s rozsirenou pusobnosti).

**KOD\_OKRES** Code of the district (okres).

**KOD\_LAU1** Code of the LAU1 administrative unit (okres).

**NAZ\_LAU1** Name of the LAU1 administrative unit (okres).

**KOD\_KRAJ** Code of the region (kraj).

**KOD\_CZNUTS3** Code of the NUTS3 unit (kraj)

**NAZ\_CZNUTS3** Name of the NUTS3 unit (kraj)

**Source**

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**Examples**

```
library(sf)
library(dplyr)

praha <- obce_polygony() %>%
  filter(NAZ_LAU1 == "Praha")

plot(praha, max.plot = 1)
```

---

okresy

*Districts (okresy)*

---

**Description**

Function returning data frame of LAU1 administrative units for the Czech Republic as sf polygons. It takes a single parameter resolution - high res (default) or low res polygons.

**Usage**

```
okresy(resolution = "high")
```

## Arguments

**resolution** Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.

## Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021 (i.e changes introduced by act 51/2020 Sb. are reflected). Downloaded size of high resolution shapefile 2.1 MB.

## Value

sf data frame with 77 rows of 6 variables + geometry

**KOD\_OKRES** Code of the district (okres).

**KOD\_LAU1** Code of the district as LAU1 unit (okres).

**NAZ\_LAU1** Name of the district as LAU1 unit (okres).

**KOD\_KRAJ** Code of the region.

**KOD\_CZNUTS3** Code of the region as NUTS3 (kraj).

**NAZ\_CZNUTS3** Name of the region (kraj).

## Source

© ČÚZK, 2021 <https://vdp.cuzk.cz/>

## Examples

```
library(sf)

hranice <- okresy()
plot(st_geometry(hranice), col = "white")

object.size(okresy("low"))
object.size(okresy("high"))
```

---

orp_polygony	<i>Obce s rozšířenou působností</i>
--------------	-------------------------------------

---

### Description

Function returning data frame of municipalities with extended powers (obce s rozšířenou působností) as sf polygons. It takes no parameters.

### Usage

```
orp_polygony()
```

### Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021 (i.e changes introduced by act 51/2020 Sb. are reflected). Downloaded size is 3.1 MB.

### Value

sf data frame with 206 rows of 5 variables + geometry

**KOD\_ORP** Code of the level III commune (obec s rozšířenou působností).

**NAZ\_ORP** Full name of the level III commune (obec s rozšířenou působností).

**KOD\_KRAJ** Code of the region (kraj).

**KOD\_CZNUTS3** Code of the NUTS3 unit (kraj)

**NAZ\_CZNUTS3** Name of the NUTS3 unit (kraj)

### Source

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plochy	<i>Water Bodies</i>
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---

### Description

Function returning data frame of water bodies of the Czech Republic as sf polygons. It takes no parameters.

### Usage

```
plochy()
```

**Details**

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to December 2020. Downloaded size is 1.5 MB.

**Value**

sf data frame with 1.769 rows of 2 variables + geometry

**NAZEV** Name, with Czech accents

**VYSKA** water level, meters above sea level

**Source**

Mapový podklad – Data200, 2021 © Český úřad zeměměřický a katastrální. <https://www.cuzk.cz>

---

reky	<i>Rivers</i>
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---

**Description**

Function returning data frame of rivers of the Czech Republic as sf lines. It takes a single parameter scope with default "global".

**Usage**

```
reky(scope = "global", resolution = "high")
```

**Arguments**

scope	Should the function return all rivers, or just Vltava in Prague / Svitava & Svratka in Brno?
resolution	Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.

**Details**

Two special case scopes are defined: Praha (returning the part of Vltava in and around Prague) and Brno (returning Svitava and Svratka near and around Brno).

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to January 2021. Downloaded size is 4.4 MB.

**Value**

sf data frame with 3.617 rows of 4 variables + geometry:

**TYP** Type of river

**NAZEV** Name, with Czech accents

**Navigable** Boolean indicating navigability of river.

**Major** Boolean indicating one of the major rivers.

**Source**

Mapový podklad – Data200, 2021 © Český úřad zeměměřický a katastrální. <https://www.cuzk.cz>

**Examples**

```
library(sf)
```

```
plot(st_geometry(subset(okresy(), KOD_LAU1 == "CZ0642"))) # Brno city  
plot(reky("Brno"), add = TRUE) # Svitava & Svratka added to Brno my city plot
```

---

republika

*Republika*

---

**Description**

Boundaries of the Czech Republic as sf polygon.

**Usage**

```
republika(resolution = "high")
```

**Arguments**

**resolution** Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.

**Details**

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to June 2021. Downloaded size of high resolution shapefile is <1 MB.

**Value**

sf data frame with 1 row of 1 variable + geometry:

**Source**

© ČÚZK, 2021 <https://vdp.cuzk.cz/>

**Examples**

```
library(sf)

hranice <- republika("low")
plot(hranice, col = "white")
```

---

revgeo

*Reversely Geocode a Czech Address*

---

**Description**

This function connects to Czech State Administration of Land Surveying and Cadastre (<https://www.cuzk.cz/en>) API to reversely geocode an address. As consequence it is implemented only for Czech addresses.

**Usage**

```
revgeo(coords)
```

**Arguments**

coords            coordinates to be reverse geocoded; expected as sf data frame of spatial points

**Details**

Input of the function is a sf data frame of spatial points, and output a vector of characters.

The function returns the same sf data frame as input, with added field revgeocoded; it contains the result of operation. Should the data frame contain a column named revgeocoded it will be overwritten.

In case of reverse geocoding failures (e.g. coordinates outside of the Czech Republic and therefore scope of ČÚZK) NA is returned.

In case of API failures (CUZK down) the function returns NAs again, with a message.

Usage of the ČÚZK API is governed by ČÚZK Terms & Conditions - <https://geoportal.cuzk.cz/Dokumenty/Podminky.pdf>.

**Value**

sf data frame as input, with column revgeocoded added (or overwritten)

## Examples

```
library(dplyr)
library(sf)

brno <- obce_polygon() %>% # shapefile of Brno
  filter(NAZ_OBEC == "Brno") %>%
  st_transform(5514) # planar CRS (eastings & northings)

pupek_brna <- st_centroid(brno) # calculate centroid

adresa_pupku <- revgeo(pupek_brna)$revgeocoded # address of the center
```

---

senat_obvody	<i>Senate Districts (Volební obvod pro volby do Senátu) of the Czech Republic</i>
--------------	---

---

## Description

Function returning data frame of the 81 Senate Districts for the Czech Republic as sf polygons. It takes a single parameter resolution - high res (default) or low res polygons.

## Usage

```
senat_obvody(resolution = "high")
```

## Arguments

resolution	Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.
------------	--

## Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to February 2021 (last update was in 2016). Downloaded size of high resolution shapefile is 10 MB, size of the low res object is negligible (but a working internet is still required, as the object is not internal).

## Value

sf data frame with 81 rows of 3 variables + geometry

**OBVOD** Code of the district; left padded with zero in case of districts one to nine.

**SIDLO** Seat of the senator.

**NAZEV\_VO** Formal name of the district.



**Source**

ČSÚ [https://www.czso.cz/csu/czso/podminky\\_pro\\_vyuzivani\\_a\\_dalsi\\_zverejnovani\\_statistickych\\_udaju\\_csu](https://www.czso.cz/csu/czso/podminky_pro_vyuzivani_a_dalsi_zverejnovani_statistickych_udaju_csu)

**Examples**

```
library(sf)

senat <- senat_obvody("low")
plot(st_geometry(senat), col = "white")
nrow(senat) # 81, because the Constitution says so...
```

---

silnice

*Road Network*

---

**Description**

Function returning data frame of roads of the Czech Republic as sf lines. It has no obligatory parameters.

**Usage**

```
silnice()
```

**Details**

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to December 2020. Downloaded size is 6 MB.

**Value**

sf data frame with 59.594 rows of 3 variables + geometry:

**TRIDA** Class of the road: highway = dálnice, speedway = rychlostní silnice, 1st class road = silnice I. třídy, 2nd class road = silnice II. třídy, 3rd class road = silnice III. třídy, other road = nevidovaná silnice

**CISLO\_SILNICE** Local road code

**MEZINARODNI\_OZNACENI** International road code

**Source**

Mapový podklad – Data200, 2021 © Český úřad zeměměřický a katastrální. <https://www.cuzk.cz>

---

`volebni_okrsky`*Election Districts (Volební okrsky) of the Czech Republic*

---

### Description

Function returning data frame of the local election districts for the Czech Republic as sf polygons. It takes a single parameter resolution - high res (default) or low res polygons.

### Usage

```
volebni_okrsky(resolution = "high")
```

### Arguments

<code>resolution</code>	Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.
-------------------------	--

### Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to January 2023 (the presidential elections). Downloaded size of high resolution shapefile is 75 MB, size of the low res object is 5 MB (so proceed with caution, and patience).

### Value

sf data frame with 14 733 rows of 6 variables + geometry

**Kod** Unique id of the district.

**Cislo** Id of the district within a given Obec / not globally unique.

**ObecKod** Id of obec - maps to `obce_polygony()$KOD_OBEC`.

**MomcKod** Id of městská část - maps to `casti()$KOD`.

**KOD\_LAU1** Id of okres - maps to `okresy()$KOD_LAU1`.

**KOD\_CZNUTS3** Id of kraj - maps to `kraje()$KOD_CZNUTS3`.

### Source

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### Examples

```
library(sf)

prazske_okrsky <- subset(volebni_okrsky("low"), ObecKod == "554782")
plot(prazske_okrsky) # the districts of Prague
```

---

`vyskopis`*Vyskopis*

---

## Description

Terrain of the Czech Republic as a terra package object.

## Usage

```
vyskopis(format = "rayshaded", cropped = TRUE)
```

## Arguments

<code>format</code>	Should the function return actual terrain (meters above sea level) or shaded relief (rayshaded). Allowed values are "actual" and "rayshaded".
<code>cropped</code>	Should the raster provide data over Czech Republic's bounding box (cropped = FALSE) or just actual borders (cropped = TRUE). Defaults to TRUE to preserve compatibility with earlier versions.

## Details

The function returns a raster file of either actual terrain (values are meters above sea level) or rayshaded relief..

The raster is created from EU DEM 1.1 file by Copernicus Land Monitoring service. The original file has pixel resolution 25×25 meters, which is too detailed for purposes of the package and was downsampled by factor of 4.

The extent of the raster file is bounding box of the Czech Republic; this is a change to prior versions in order to better facilitate use of the raster in natural sciences context. To preserve compatibility optional argument 'cropped' has been created, defaulting to 'TRUE' (i.e. behaviour before v1.10.0).

Due to package size constraints both versions are stored externally (and a working internet connection is required to use the package).

The data is current to year 2011 (but it is not expected to materially change over time). Downloaded size of the rasters is 70 MB, so proceed with caution.

## Value

terra package SpatRaster

## Source

Copernicus Land Monitoring service, with funding by the European Union. <https://land.copernicus.eu/imagery-in-situ/eu-dem>

## Examples

```
library(terra)

# original extent - bounding box over Czech Republic
original_extent <- vyskopis("rayshaded", cropped = FALSE)

plot(original_extent, col = gray.colors(16))

# add plot of country borders, for context
plot(RCzechia::republika(),
     border = "red",
     col = NA,
     add = TRUE)

# cropped to size - default behaviour
cropped_extent <- vyskopis("rayshaded")

plot(cropped_extent, col = gray.colors(16))
```

---

zeleznice

*Railroad Network*

---

## Description

Function returning data frame of railroads of the Czech Republic as sf lines. It has no obligatory parameters.

## Usage

```
zeleznice()
```

## Details

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to December 2020. Downloaded size is <1 MB.

## Value

sf data frame with 9.957 rows of 3 variables + geometry:

**ELEKTRIFIKACE** is the railroad electrified?

**KOLEJNOST** track: single = jednokolejní, double = dvojkolejní, more = tří a více kolejní

**ROZCHODNOST** gauge: standard = normální, narrow = úzkokolejka

**Source**

Mapový podklad – Data200, 2021 © Český úřad zeměměřický a katastrální. <https://www.cuzk.cz>

---

zip\_codes

*ZIP Codes of the Czech Republic*

---

**Description**

Function returning data frame of the 2 671 ZIP Code Areas for the Czech Republic as sf polygons. It takes a single parameter resolution - high res (default) or low res polygons.

**Usage**

```
zip_codes(resolution = "high")
```

**Arguments**

**resolution** Should the function return high or low resolution shapefile? Allowed values are "high" (default) and "low". This parameter affects only the geometry column, all other fields remain the same.

**Details**

Note that there are a number of special ZIP Codes - e.g. 118 01 for Government of the Czech Republic (Strakova akademie / Nábřeží Edvarda Beneše 4). These are not listed here, as they do not relate to a specific delivery area but are in essence private.

The geometry type is MULTIPOLYGON, as there are a number of non continuous areas of delivery.

Due to package size constraints the data are stored externally (and a working internet connection is required to use the package).

The data is current to February 2021 (last update was in January 2020). Downloaded size of high resolution shapefile is 45 MB, size of the low res object is 2 MB.

**Value**

sf data frame with 2 671 rows of 2 variables + geometry

**PSC** ZIP Code as string in format NNNNN.

**NAZ\_POSTA** Responsible Post Office

**Source**

ČSÚ [https://www.czso.cz/csu/czso/podminky\\_pro\\_vyuzivani\\_a\\_dalsi\\_zverejnovani\\_statistickych\\_udaju\\_csu](https://www.czso.cz/csu/czso/podminky_pro_vyuzivani_a_dalsi_zverejnovani_statistickych_udaju_csu)

**Examples**

```
library(sf)
library(dplyr)

# residence of the Czech Prime Minister
kramarova_vila <- RCzechia::geocode("Gogolova 212, Praha 1")

# ZIP code of the PM residence
kramarova_vila %>%
  st_join(RCzechia::zip_codes("low"), left = FALSE) %>%
  pull(PSC)
```

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